

Summer Assignment Part 0 Review

Date _____

Find the value of x or y so that the line through the points has the given slope.

1) $(x, 8)$ and $(-3, -2)$; slope: $-\frac{10}{3}$

2) $(-1, 5)$ and $(-9, y)$; slope: $-\frac{1}{4}$

3) $(x, 3)$ and $(2, 0)$; slope: $\frac{3}{5}$

4) $(-4, 8)$ and $(0, y)$; slope: $-\frac{5}{4}$

5) $\left(-2\frac{3}{8}, \frac{2}{3}\right)$ and $\left(x, -\frac{5}{6}\right)$; slope: $-\frac{3}{10}$

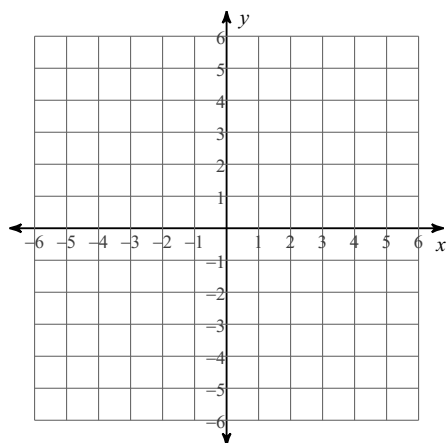
6) $(0, y)$ and $\left(\frac{3}{4}, -\frac{14}{9}\right)$; slope: 0

7) $\left(x, \frac{3}{2}\right)$ and $\left(\frac{1}{8}, -3\frac{1}{3}\right)$; slope: $\frac{116}{9}$

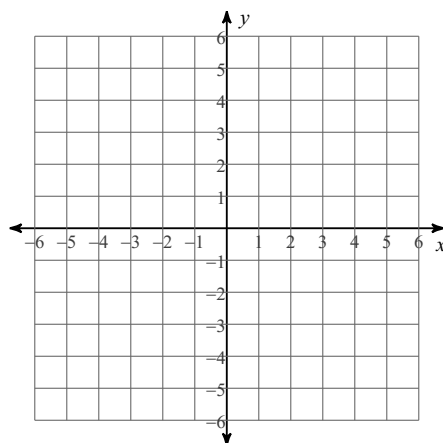
8) $\left(x, -\frac{3}{2}\right)$ and $\left(\frac{1}{2}, \frac{5}{4}\right)$; slope: $-\frac{33}{10}$

Sketch the graph of each line.

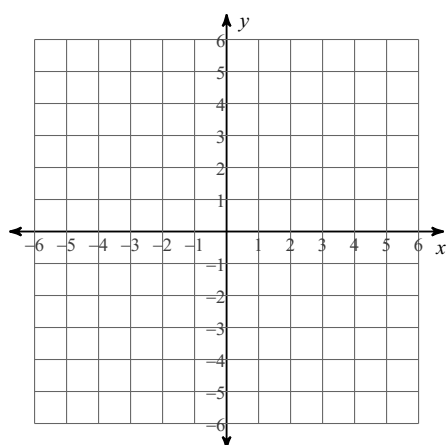
9) $3x - y = -4$



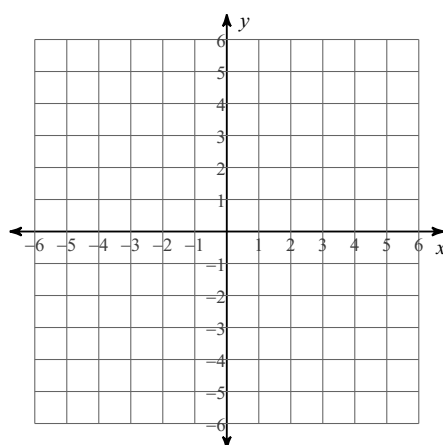
10) $x + 4y = -16$



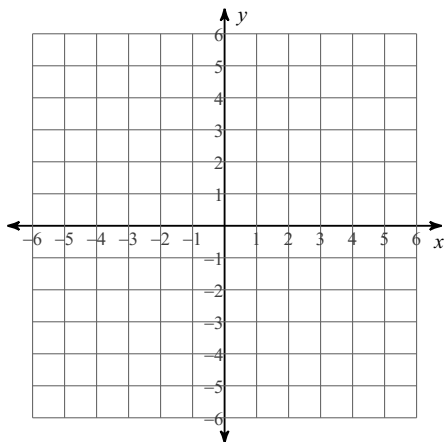
11) $y = \frac{1}{2}x + 4$



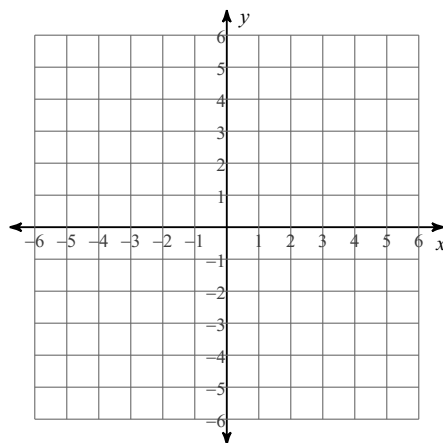
12) $y = -\frac{3}{2}x - 2$



$$13) 0 = 1 - \frac{1}{2}y - \frac{7}{4}x$$



$$14) -3 + 4x = -y$$



Write the point-slope form of the equation of each line given the slope and y-intercept.

$$15) \text{ Slope} = 3, \text{ y-intercept} = -4$$

$$16) \text{ Slope} = -\frac{7}{5}, \text{ y-intercept} = 2$$

Write the point-slope form of the equation of the line through the given point with the given slope.

$$17) \text{ through: } (4, 0), \text{ slope} = \frac{1}{4}$$

$$18) \text{ through: } (-2, -1), \text{ slope} = 2$$

Write the point-slope form of the equation of the line through the given points.

$$19) \text{ through: } (-3, -1) \text{ and } (2, 3)$$

$$20) \text{ through: } (3, 4) \text{ and } (-1, -2)$$

Write the point-slope form of the equation of the line described.

$$21) \text{ through: } (-2, -5), \text{ parallel to } y = -\frac{3}{2}x - 2$$

$$22) \text{ through: } (-2, -2), \text{ parallel to } y = 2x$$

$$23) \text{ through: } (2, 4), \text{ perp. to } y = -\frac{2}{3}x + 1$$

$$24) \text{ through: } (0, -1), \text{ perp. to } y = -x + 2$$

Answers to Summer Assignment Part 0 Review (ID: 1)

1) -6

2) 7

3) 7

4) 3

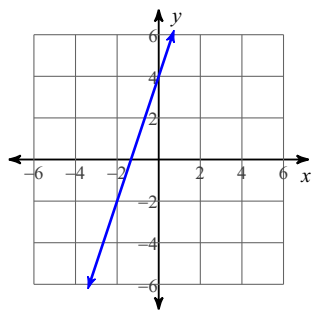
5) $2\frac{5}{8}$

6) $-\frac{14}{9}$

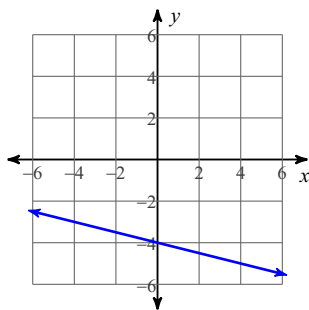
7) $\frac{1}{2}$

8) $1\frac{1}{3}$

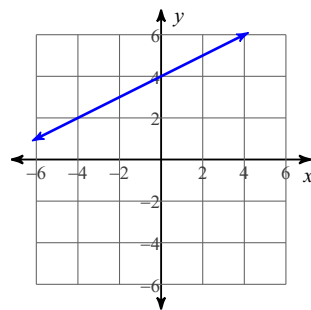
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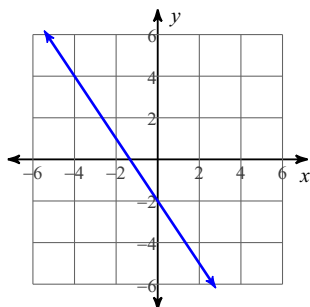
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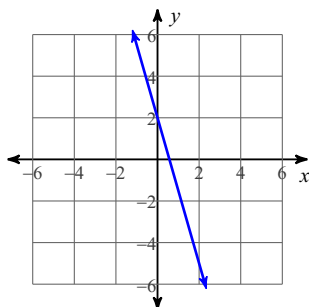
11)



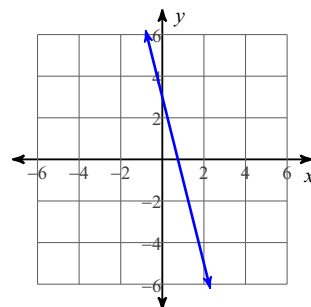
12)



13)



14)



15) $y + 4 = 3x$

16) $y - 2 = -\frac{7}{5}x$

17) $y = \frac{1}{4}(x - 4)$

18) $y + 1 = 2(x + 2)$

19) $y + 1 = \frac{4}{5}(x + 3)$

20) $y - 4 = \frac{3}{2}(x - 3)$

21) $y + 5 = -\frac{3}{2}(x + 2)$

22) $y + 2 = 2(x + 2)$

23) $y - 4 = \frac{3}{2}(x - 2)$

24) $y + 1 = x$